QC ABSTRACT

NAME OF WORK: Filling Potholes in Ward No.08, Kodigehalli.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
2	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
3	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
4	TACK COAT	Rate of spread	One Test		1	1

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-2022-07-07-17** **Date: 23-05-2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Filling Potholes in Ward No.08, Kodigehalli.

Agency : Sri.Nagoor Lokanadha Reddy, Flat No.102, 1st Floor, No.02, MSNR Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-32.

Customer Reference : BBMP/EE/BTP/WO/40/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 20-05-2022

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	285	285	2.6	97.4	95-100
22.4	2355	2640	24.0	76.0	60-80
11.2	2298	4938	44.9	55.1	40-60
4.75	2348	7286	66.2	33.8	25-40
2.36	1802	9088	82.6	17.4	15-30
0.6	655	9743	88.6	11.4	8-22
0.075	1022	10765	97.9	2.1	0-5

* The results obtained are satisfactory as per standard requirements.

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Kodigehalli Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : **CP-2022-07-07-17** **Date: 23-05-2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Filling Potholes in Ward No.08, Kodigehalli.

Agency : Sri.Nagoor Lokanadha Reddy, Flat No.102, 1st Floor, No.02, MSNR Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-32.

Customer Reference : BBMP/EE/BTP/WO/40/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-2022

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of Test : 20-05-2022

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.0	305.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.0	78.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	232.4	226.7
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.3
5	Aggregate impact value	(B/A)*100	23.6	25.6
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2022-07-07-17**	**Date: 23-05-2022**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Filling Potholes in Ward No.08, Kodigehalli.	
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat No.102, 1st Floor, No.02, MSNR Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post,	
Customer Reference	:	BBMP/EE/BTP/WO/40/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	20-05-2022	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	20-05-2022	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.6%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.4%	
Combined Flakiness and Elongation Index for WMM	25.0%	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID :

Date: 23-05-2022

Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling Potholes in Ward No.08, Kodigehalli.
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat No.102, 1st Floor, No.02, MSNR Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-32.
Customer's Reference	:	BBMP/EE/BTP/WO/40/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-05-2022
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	21-05-2022

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**68**	60 to 70
2	Softening Point, °C	**54**	Min. 40°C
3	Ductility, cm	**99**	Min. 75cm
4	Flash point, °C	**245**	Min. 220°C
	Fire point, °C	**273**	

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Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

****End of Report****

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-2022-07-07-17** **Date: 25-05-2022**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Filling Potholes in Ward No.08, Kodigehalli.
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat No.102, 1st Floor, No.02, MSNR Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-32.
Customer Reference	:	BBMP/EE/BTP/WO/40/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-05-2022
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of Test	:	23-05-2022
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	75	75	1.5	98.5	90-100
9.5	688	763	15.3	84.7	70-88
4.75	902	1665	33.3	66.7	53-71
2.36	598	2263	45.3	54.7	42-58
1.18	579	2842	56.8	43.2	34-48
0.6	601	3443	68.9	31.1	26-38
0.3	511	3954	79.1	20.9	18-28
0.15	389	4343	86.9	13.1	12-20
0.075	275	4618	92.4	7.6	4-10
PAN	382	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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Kodigehalli Sub Division
BBMP, Bangalore

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com
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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : **CP-2022-07-07-17** **Date: 26-05-2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Filling Potholes in Ward No.08, Kodigehalli.

Agency : Sri.Nagoor Lokanadha Reddy, Flat No.102, 1st Floor, No.02, MSNR Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-32.

Customer Reference : BBMP/EE/BTP/WO/40/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-05-2022

Type of Mix : BC(Bitumenous Concrete)

Date of Test : 23-05-2022

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.3	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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BBMP, Bangalore

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****End of Report****

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : **CP-2022-07-07-17** **Date: 26-05-2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Filling Potholes in Ward No.08, Kodigehalli.

Agency : Sri.Nagoor Lokanadha Reddy, Flat No.102, 1st Floor, No.02, MSNR Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-32.

Customer Reference : BBMP/EE/BTP/WO/40/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-05-2022

Type of Mix : BC (Bituminous Concrete)

Date of Test : 23-05-2022

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.2	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	10.5		
Strength	Aggregate Impact Value	23	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.65	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.18	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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Kodigehalli Sub Division
BBMP, Bangalore

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R KARTHIK RECHAN
Authorized Signatory
Quallity Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : **CP-2022-07-07-17** **Date: 26-05-2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Filling Potholes in Ward No.08, Kodigehalli.

Agency : Sri.Nagoor Lokanadha Reddy, Flat No.102, 1st Floor, No.02, MSNR Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-32.

Customer Reference : BBMP/EE/BTP/WO/40/2021-22

Source of Sample : Hot Mix Plant, Bangalore

Sample Condition : Satisfactory

Date of Receipt : 23-05-2022

Type of Mix : BC (Bituminous Concrete)

Date of Test : 23-05-2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.45	11.28	10KN(min)
2	Marshal flow at 60°C, mm	3.48	3.52	2-4
3	Percent air Voids	4.79	4.82	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.53	14.38	13-15
5	Percent Voids filled with Bitumen(VFB %)	72.58	72.00	65-75
6	Density, g/cc	2.24	2.25	–

* The results obtained are satisfactory as per standard requirements.

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Kodigehalli Sub Division
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Authorized Signatory
Quality Manager

End of Report

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-2022-07-07-17**	**Date: 30-05-2022**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Filling Potholes in Ward No.08, Kodigehalli.	
Agency	:	Sri.Nagoor Lokanadha Reddy, Flat No.102, 1st Floor, No.02, MSNR Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-32.	
Customer Reference	:	BBMP/EE/BTP/WO/40/2021-22	
Sample Condition	:	Satisfactory	
Date of Receipt	:	28-05-2022	
Type of Mix	:	Tack coat	
Date of Test	:	28-05-2022	

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.773
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.025
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.278
7	Average	Kg/sq.m	0.272	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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End of Report

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-2022-07-07-17** **Date: 28-05-2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Filling Potholes in Ward No.08, Kodigehalli.

Agency : Sri.Nagoor Lokanadha Reddy, Flat No.102, 1st Floor, No.02, MSNR Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-32.

Customer Reference : BBMP/EE/BTP/WO/40/2021-22

Source of Sample : Sample supplied by Agency

Date of Receipt : 27-05-2022

Type of Mix : BC (Bituminous Concrete)

Date of Test : 27-05-2022

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	5.60
4	Average percentage	%	5.7	

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Lab ID : **CP-2022-07-07-17** **Date: 28-05-2022**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	12	12	2.5	97.5	90-100
9.5	89	101	21.4	78.6	70-88
4.75	102	203	43.1	56.9	53-71
2.36	65	268	56.9	43.1	42-58
1.18	25	293	62.2	37.8	34-48
0.6	11	304	64.5	35.5	26-38
0.3	47	351	74.5	25.5	18-28
0.15	40	391	83.0	17.0	12-20
0.075	38	429	91.1	8.9	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	15	15	3.2	96.8	90-100
9.5	91	106	22.5	77.5	70-88
4.75	98	204	43.2	56.8	53-71
2.36	60	264	55.9	44.1	42-58
1.18	24	288	61.0	39.0	34-48
0.6	10	298	63.1	36.9	26-38
0.3	45	343	72.7	27.3	18-28
0.15	42	385	81.6	18.4	12-20
0.075	48	433	91.7	8.3	4-10

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Note:-

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Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

End of Report

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-2022-07-07-17** **Date: 30-05-2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Filling Potholes in Ward No.08, Kodigehalli.

Agency : Sri.Nagoor Lokanadha Reddy, Flat No.102, 1st Floor, No.02, MSNR Enclave, 2nd Cross, Manorayana Palya, R T Nagar Post, Bangalore-32.

Customer Reference : BBMP/EE/BTP/WO/40/2021-22

Source of Sample : Sample supplied by Agency

Date of Receipt : 28-05-2022

Type of Mix : BC (Bituminous Concrete)

Date of Test : 28-05-2022

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	470	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.00	5.80
4	Average percentage	%	5.9	

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Lab ID : **CP-2022-07-07-17** **Date: 30-05-2022**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	18	18	3.8	96.2	90-100
9.5	91	109	23.2	76.8	70-88
4.75	98	207	44.0	56.0	53-71
2.36	47	254	54.0	46.0	42-58
1.18	27	281	59.8	40.2	34-48
0.6	25	306	65.1	34.9	26-38
0.3	58	364	77.4	22.6	18-28
0.15	42	406	86.4	13.6	12-20
0.075	35	441	93.8	6.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	17	17	3.6	96.4	90-100
9.5	90	107	22.7	77.3	70-88
4.75	95	202	42.9	57.1	53-71
2.36	45	247	52.4	47.6	42-58
1.18	22	269	57.1	42.9	34-48
0.6	58	327	69.4	30.6	26-38
0.3	38	365	77.5	22.5	18-28
0.15	42	407	86.4	13.6	12-20
0.075	39	446	94.7	5.3	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report